

LISTING OF THE CLAIMS

- 1-12. (canceled)
13. (previously presented) A composition for delivery of polynucleotide to a cell comprising:
the polynucleotide and a amphiphilic membrane active polyvinylether.
14. (original) The composition of claim 13 wherein the polynucleotide is associated with the
polyvinylether via an electrostatic interaction.
15. (original) The composition of claim 13 wherein the polynucleotide is associated with the
polyvinylether via a covalent linkage.
16. (original) The composition of claim 15 wherein the polynucleotide is associated with the
polyvinylether via a labile covalent linkage.
17. (original) The composition of claim 13 wherein the polyvinylether consists of a cationic
polyvinylether.
18. (canceled)
19. (previously presented) The composition of claim 13 wherein the polyvinylether comprises a
maleic anhydride modified polyvinylether.
20. (previously presented) The composition of claim 19 wherein the modified polyvinylether
consists of an anionic polyvinylether.
21. (canceled)
22. (original) The composition of claim 13 wherein the polynucleotide is selected from the list
consisting of: DNA, plasmid DNA, linear DNA, dsDNA, ssDNA, RNA, expression cassette,
antisense oligonucleotide, siRNA, microRNA, RNA expression cassette, ribozyme, dsRNA,
and synthetic polynucleotides.
23. (original) The composition of claim 22 wherein the polynucleotide expresses a protein.
24. (original) The composition of claim 22 wherein the polynucleotide expresses an RNA.
25. (original) The composition of claim 22 wherein the polynucleotide inhibits expression of a
gene in the cell.
26. (original) The composition of claim 13 wherein the polyvinylether consists of a modified
polyvinylether.
27. (original) The composition of claim 26 wherein the modified polyvinylether consists of an
anionic polyvinylether.

28. (original) The composition of claim 27 wherein the polyvinylether consists of an amphiphilic polyvinylether.
29. (previously presented) The composition of claim 26 wherein the modification consists of a reversible modification.
30. (previously presented) The composition of claim 26 wherein the polynucleotide is covalently linked to the polyvinylether.